

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Suppli Name	
PO038050	ACI001-VC	1	1	Net 30	M4140NB0.500x0.500	4140 Steel Bar 0.500 X 0.500 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529				6	10/20/2017	12		S007089	Stock	11/6/2017	\$ 39.17 / ft	0		\$470.00	Acier Ouellet Inc.	
		2			MT-41L40-R1.500	AISI 41L40 Leaded Steel Round Bar 1.500" Dia.					12			S007114	Stock	11/6/2017	\$ 34.00 / ft	0		\$408.00	Acier Ouellet Inc.	
		3			M7075T6R1.750	M7075T6R1.750 : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ROUND BAR AS PER AMS-QQ-A-2259 OR AMS 4122/4123/4124/4186/4187 OR PER AMS QQ-A-200/11					10/26/2017	12		S007090	Stock	11/6/2017	\$ 47.92 / ft	0		\$575.00	Acier Ouellet Inc.	
		4			MT-4140QT_R0.625	AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia.				3	10/20/2017	3		S007115	Stock	11/6/2017	\$ 14.00 / ft	0		\$42.00	Acier Ouellet Inc.	
		5			MT-4140QQT-R1.000	AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia.						3		S007126	Stock	11/6/2017	\$ 18.33 / ft	0		\$55.00	Acier Ouellet Inc.	
		6			M6061T6B0.500X7.000	6061T6 Bar 0.500 X 7.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					7		6		S007092	Stock	11/6/2017	\$ 17.14 / ft	0		\$102.86	Acier Ouellet Inc.
		7			M6061T6TR4.0X2.0W125	6061-T6 Rect Tube 4.0 X 2.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160					20		20		S007093	Stock	11/6/2017	\$ 4.98 / ft	0		\$99.50	Acier Ouellet Inc.
		8			MT-A513-T-0.500W0.0625	A513 Seamless Alloy Steel Round Tubing 0.500"dia. x 0.065" Wall						19		S007127	Stock	11/6/2017	\$ 2.03 / ft	0		\$38.36	Acier Ouellet Inc.	
										Total:	83		87								\$1,404.76	

Plex 11/6/2017 2:17 PM Dart Plouffe Sonia

MT 1144 2102  
S007116



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO038050

<b>Supplier:</b>	ACI001-VC Acer Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	<b>PO No:</b>	PO038050
		<b>PO Date:</b>	10/16/17
		<b>Due Date:</b>	10/20/17
		<b>Purchase Order Revision:</b>	
		<b>Revision Date:</b>	
		<b>Ship-To Contact:</b>	Lavoie, Chantal Phone: clavoie@dartaero.com
<b>Ship To:</b>	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	<b>Via:</b>	Ground
		<b>Pymt Terms:</b>	Net 30
		<b>Freight Terms:</b>	
		<b>Special Comments:</b>	

### Items

Line Item	Part	Rev	Supplier Part No	Item No	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4140NB0.500x0.500	-			4140 Steel Bar 0.500 X 0.500 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529		Firmed	10/20/17	6 ft	0 ft	6 ft	\$39.1666/ft	\$235.00
2	MT-41L40-R1.500	✓ DAS 9			AISI 41L40 Leaded Steel Round Bar 1.500" Dia.		Firmed	10/20/17	12 ft	0 ft	12 ft	\$34.00/ft	\$408.00
3	M7075T6R1.750	✓ 9-80			M7075T6R1.750 : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ROUND BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4124/4186/4187 OR PER AMS QQ-A-200/11		Firmed	10/26/17	12 ft	0 ft	12 ft	\$47.9166/ft	\$575.00
4	MT-4140QT-R0.625	✓ DAS 9			AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia.		Firmed	10/20/17	3 ft	0 ft	3 ft	\$14.00/ft	\$42.00
5	MT-4140QT-R1.000	✓ 9-80			AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia.		Firmed	10/20/17	3 ft	0 ft	3 ft	\$18.333/ft	\$55.00
6	M6061T6B0.500X7.000	-			6061T6 Bar 0.500 X 7.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221		Firmed	10/20/17	7 ft	0 ft	7 ft	\$17.142857/ft	\$120.00
7	M6061T6TR4.0X2.0W125	-			6061-T6 Rect Tube 4.0 X 2.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116		Firmed	10/20/17	20 ft	0 ft	20 ft	\$4.975/ft	\$99.50



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO038050

Items														
Line Item	Part	Rev	Supplier Part No	Item No	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price	
8	MT-A513- T-0.500W0.0625	545 9 <i>No 800 ft 9.00</i>			OR PER AMS-QQ-A-200/8 OR AMS 4160 A513 Seamless Alloy Steel Round Tubing 0.500"dia. x 0.065" Wall		Firmed	10/20/17	✓ 20 ft	0 ft ✓ 20 ft <i>20ft K5.9</i>	\$2.0295/ft	\$40.59 <i>recy</i> <b>Grand Total: \$1,575.09</b>		
Order Notes														
<p>Procurement Quality Clauses</p> <p>A005 right of entry</p> <p>A012 chemical and physical test report</p> <p>A016 personnel qualification</p> <p>A017 raw material identification (as applicable)</p> <p>A026 certification of material conformance</p> <p>A041 quality management system</p> <p>A042 dart notification by supplier</p> <p>A043 retention of quality documents</p> <p>Terms &amp; Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit <a href="http://www.dartaerospace.com">www.dartaerospace.com</a> for further explanation.</p>														

Plex 10/16/17 3:11 PM dart.lavoie.chantal

*SQ DHL*



## DELIVERY - CLIENT

Copy c000056725

**ACTER OUELLETTE INC.**

935, Boul. du Havre

Sabre de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer Nº

CL0001056

Date

2017/10/16

Delivery date

2017/10/26

Your order Nº

038050

Processed by

Josianne Bourdon

Salesman

Carrier

Credit Termé

Net 30 Days

OUELLETTE VALLEYFIELD

Page

1

				Internal Use Only							
				CMD	EXP	B/O	IN	I	S	C	OUT
Product Description	Weight	Qty	U/M								
✓1 SQUARE 4140 1/2 SPH ANN NS C4140-12A 9235	10.00	12.00	PI								
1 X 12' ACT0294-JG-25/10 HEAT: 10466150 /											
2 ROUND 4140 ANNEALED 1 1/2 RANDOM R4140-112A-V 4891	90.12	15.00	PL-SCLB								
1 X 15' HEAT: 014580. COUPE A LA SCIE SCIE 1	DAS 8 9-89	1.00	UN								
TRANSFERT ST-JEROME LE 26/10											

Instruction	F-M	Delivery Route	5	Page
Att : CHANTAL LAVOIE	Tél.: 613-632-5200			



## DELIVERY - CLIENT

Copy C000056725

Customer No CL0001056

Date 2017/10/16

Delivery date 2017/10/26

Your order N° 038050

Processed by Josianne Bourdon

### Billed to

DART AEROSPACE LTD  
1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

Salesman

, Ontario,

CARRIER

Credit Termes

OUELLETTE VALLEYFIELD

Net 30 Days

### Instruction

F-M

Alt : CHANTAL LAVOIE Tel.: 613-632-5200

Page

2

### Product Description

4 ROUND ALU 1 3/4 7075-T6 NS.

✓ RAL7075T6-134 9245

1 X 12'

AC10312-JG-25/10 HEAT: 10059056

5 7075 T6 1 3/4" DIA

N

1 X 12'

6 TUBE MEC 0.500 OD X .065 RANDOM

TME-0500065-V 6745

DAS

9

9-86

1 X 20' RL HEAT: F686691

TRANSFERT ST-JEROME LE 18/10

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 ROUND ALU 1 3/4 7075-T6 NS.	33.90	12.00	PI								
✓ RAL7075T6-134 9245											
1 X 12'											
AC10312-JG-25/10 HEAT: 10059056											
5 7075 T6 1 3/4" DIA											
N											
1 X 12'											
6 TUBE MEC 0.500 OD X .065 RANDOM											
TME-0500065-V 6745											
DAS											
9											
9-86											
1 X 20' RL HEAT: F686691											
TRANSFERT ST-JEROME LE 18/10											

NIR : R-109516-6

Next Page...



## DELIVERY - CLIENT

Copy C000056725

### ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Billed to**  
DART AEROSPACE LTD

**Shipped to**

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Salesman

Carrier

Credit Termes

OUELLETTE VALLEYFIELD

Net 30 Days

Your order N°

038050

Processed by

Josianne Bourdon

Instruction F-M

Att : CHANTAL LAVOIE Tel.: 613-632-5200

Page

3

Product Description

Weight

Qty

U/M

CMD

EXP

B/O

IN

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S

C

OUT

PCS NB

Internal Use Only

Product Description	Weight	Qty	U/M	CMD	EXP	B/O	IN	I	S	C	OUT
8 ROUND 4140 5/8 QT NS R4140-58QT 9236 DAS 3.12 3.00 PI											
IX 3' AC10291-FU-19/10 HEAT: <u>NFI4203087</u>	9										
9 ROUND 4140 1 QT NS R4140-1QT 9237 DAS 8.01 3.00 PI_SCLB	9.80										
IX 3' AC10291-FU-19/10 HEAT: <u>NFI4203087</u>	9										
10 FLAT ALU 1/2 X 7 6061-T651 NS FAL-127 9238 DAS 26.00 6.00 PI_SCLB	9.86										
IX 6' AC10292-TH-23/10 HEAT: I3-2217 ✓											



## DELIVERY - CLIENT

Copy C000056725

### ACIER OUELLETTE INC.

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Delivery date** 2017/10/26

Your order N° 038050

### Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,

CARRIER

At : CHANTAL LAVOIE Tél.: 613-632-5200

Credit Termes

Net 30 Days

### Instruction F-M

Delivery Route 5

Page 4

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1.1 TUBE ALU 4 X 2 X .125 6061-T6 R RANDOM TAL-42125R-V 6386	33.62	20.00	PL_SCLB							
1 X 20' HEAT: 69957 -										

**Total Weight (Lbs):** 210.81

NIR : R-109516-6

### Conditions :

All sold and delivered materials remain in the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the re-possession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Y	M	D

Total (\$CAD)

Customer's Signature \_\_\_\_\_ Date \_\_\_\_\_



## DELIVERY - SCIE (4)

Copy c000056725

### ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Billed to**

DART AEROSPACE LTD

1270 ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tel.: 613-632-5200

**Instruction**

F-M

Page

1

**Product Description**

Delivery Route 5

Credit Terme

1

**Weight**

Qty

IN

OUT

**U/M**

PL\_SCLB

I

S

**PCN NB**

CMD EXP B/O

C

C

**SCIE**

1.00 UN

I

C

**Total Weight (Lbs):** 90.12

NIR : R-109516-6

### Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and its warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Y      M      D

Total (\$CAD)

Customer's Signature

Date

CO. 56725

# CERTIFICATE OF TEST CERTIFICAT D'ESAISS

Page 01 of 01

Certification Date  
25-OCT-2017

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

AC00010294

PART NUMBER/NUMÉRO DE PIÈCE

562565

Invoice Number  
T371712

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.  
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD  
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE  
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S

Description: 4140/42 CR SPH ANN BARS ASTM A108  
1/2 SQ X 12' R/L Line Total: 10.212 LB  
HEAT: 10466150 ITEM: 562565

Specifications:  
ASTM A331

ASTM A108 13

ASTM A322 07

RCPT: R122254

COUNTRY OF ORIGIN : USA

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	12	14	16	32
57	57	57	57	57	57	57	55	54	53	50	48	46	38

GRAIN SIZE : 5 -

John 11/10/02

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure alors qu'il était dans notre possession.

JOANNE DESPRES

Johnna Despres

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ



**Hamilton Specialty Bar (2007) Inc.**

TEST REPORT/RAPPORT D'EXAMEN

319 SHERMAN AVENUE NORTH  
P.O.BOX 2943, HAMILTON, ONTARIO, L8N 3R5  
Phone: (905)312-8650 Fax (905)312-1619

Customer code : 050415  
Cust. Order No.: 155757  
Cust. Part No.: 1003613

Date : 2016-04-02

<p><b>Vendor/Vendeur:</b> HAMILTON SPECIALTY BAR (2007) INC. 319 SHERMAN AVENUE NORTH P.O. BOX 2943 HAMILTON ON L8N 3R5</p> <p><b>IPO:</b> 188370      <b>Heat:</b> 014580</p>	<p><b>Sold to/Vende à:</b></p> <p>EATON STEEL CORPORATION 10221 CAPITAL AVENUE OAK PARK MI 48237 USA</p> <p><b>DAS:</b> 9</p> <p><b>Dimensions:</b> 1.5000 in</p>	<p><b>Ship to/Envoyer à:</b></p> <p>EATON STEEL CORPORATION C/O SUPER STEEL TREATING CO. 6227 RINKE WARREN MI 48091 USA</p> <p><b>Cust Grade</b> 4140ME</p> <p><b>Length:</b> 216.000 in</p>
--	---	--

This material was sent directly to MATERIUM as a sample which is typical of what is produced or available in Hamilton Specialty Bar (2011) Inc. production. The material was supplied to MATERIUM by Hamilton Specialty Bar (2011) Inc. for processing. This was paid for and paid in Canada. All other expenses were paid by MATERIUM. No payment was made to Hamilton Specialty Bar (2011) Inc. for processing. The material was produced in an enclosure at the time. Conditions of sale exist. This was paid for and paid in Canada. All other expenses were paid by MATERIUM. No payment was made to Hamilton Specialty Bar (2011) Inc. for processing. The material was produced in an enclosure at the time. Conditions of sale exist.

Polar Kaurakis, DA Technican



Super Steel Treating  
5227 Ruth Ave  
Watertown WI 53091  
(535) 785-9140  
ISO 9001:2008 Registered

## Quality Report

Date	O.C. ID No.
04/21/16	W0BRI44392

Customer: BATON STEEL CORP

Metallurgist: LJR

### Metalurgical Certification

Customer: BATON STEEL CORP PLT#2  
Grade: 4140  
Size: 1.5000  
Heat No: 014580  
Receiver: BRJ44392  
Cust PO: 15575B  
Mill Notes:  
Our Part: 2A205600  
Cust Part: 9253

Furnace Process: 2  
Date Processed: 04/21/16  
Accepted Weight: 46590  
Accepted Otv: 5  
Mill: ESB  
Release No.:  
Process TV: 12A

### Representative Sampling

Sample	Coil ID#	Batch #	--- Rad & radius ---	Surface	Macrostructure
262052		0.002	EAB EBC AB EBD	193	100% PERMITED
Coil/Bundle ID:	0145800027	0145800028	0145800029	0145800030	
	0145800031				

WB#795554

cert 403932

CU-36105

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

DRAFT

Page 01 of 02

Certification Date  
25-OCT-2017

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

AC00010312

PART NUMBER/NUMÉRO DE PIÈCE

513244

Invoice Number  
T371737

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.  
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD  
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE  
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S

Description: 7075-T651 CF BAR AMS QQ A 225/9, QQ A 225/9

1-3/4 RD X 12

HEAT: 10059056

Line Total: 35 LB

ITEM: 513244

Specifications:

QQ A 225/9 E

AMS 4122 L

ASTM B211 12

AMS QQ A 225/9 A

AMS 4123 H

ISO 9001

ALUMINIUM CHEMICAL ANALYSIS

DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			1.2		2.1	0.18	5.1	
MAX	0.4	0.5	2.0	0.3	2.9	0.28	6.1	0.2

OTHERS : EACH TOTAL  
0.05 0.15

AL REMAINDER

RCPT: R932320

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	74.2	81.2	16.0		
	75.5	82.4	16.0		

17/11/02

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontra les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontra les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Després

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST

# CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
25-OCT-2017

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT  
AC00010312

Invoice Number  
T371737

PART NUMBER/NUMÉRO DE PIÈCE  
513244

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIELD QC J6S 5L1

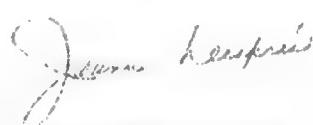
Description: 7075-T651 CF BAR AMS QQ A 225/9, QQ A 225/9  
1-3/4 RD X 12' Line Total: 35 LB  
HEAT: 10059056 ITEM: 513244

MATERIAL IS FREE FROM MERCURY CONTAMINATION

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

JOANNE DESPRES  
Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ



## CERTIFICATION TYPIQUE D'ANALYSE

AISI TYPE  
4140 RD - HT# DL13107201

625 DIA.

DL13  
625

26 octobre 2017

ACIER OUELLETTE - VALLEYFIELD  
935, boul. du Havre  
Valleyfield, QC J6S 5L1

Attn. À Qui de Droit

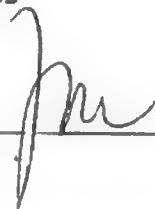
Ref. PO AC-10291 / Facture # 30870

Aacier Fusion certifie par la présente, que le matériel décrit ci-haut rencontre les limites chimiques suivantes:

### Typical Analysis

C	Mn	Si	Cr	Mo
0.370/0.440	0.650/1.100	0.150/0.350	0.750/1.200	0.150/0.250

BHN : 269 - 302



**Chemical certification**  
**Certification chimique**

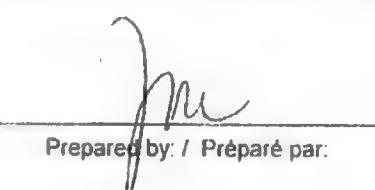
Order Num / No. Commande AC-10291	Vendor / Fournisseur 29	Country of origin / Pay d'origine USA	Date 01/20/16	Heal / coulée 9	Material ID # / No matériau NF14203087
Grade / Nuance 4140 RD	Conditions ANNEALED				
Shape / Forme RD	Size / Dimension 1.000	Specifications ASTM A193-14 GR B7, A29-12, A322-12, A434-06			

Chemical composition / Analyse chimique					
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)		
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0000 / 0.0000		
Actuel % 0.430	0.310	0.920	0.009		
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)		
Mini / maxi 0.0000 / 0.0000	0.7500 / 1.2000	0.0000 / 0.0000	0.1500 / 0.2500		
Actuel % 0.025	0.950	0.090	0.170		
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)		
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000		
Actuel % 0.160	0.004	0.027	0.000		
Cobalt (Co)	Titanium (Ti)	Cb	Sn	Ca	
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % 0.000	0.001	0.002	0.007	0.001	
Mechanical properties / Propriétés Mécaniques					
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
149.239	PSI	125.527	PSI	19.70	56.00

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut ont été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur

  
Prepared by: / Préparé par:

56725

DART

PO.10242

## Certificate of Mill Test Results

ACIER OUELLETTE DIV-VALLEYFIELD  
PLAQUE ALUMINUM 6061-T651  
.50" THICK X 7.0000" X 72.0000"  
PART NO.

PO/Ref AC00810292/00010299

Nous certifions que le document reproduit ici est  
une copie conforme du rapport fourni par le  
fournisseur du matériel ou les données résultent

BL VIM-524921-001

24Oct17

Pg 1/4

de l'analyse faite par un laboratoire qualifié.  
SIGNÉ PAR:

## INSPECTION CERTIFICATE № 17.121473

EN 10204 - 3.1

Consignee: KAMENSK URALSKY METALLURGICAL WORKS  
5, Zavodskaya Str., Kamenek Uralsky, Sverdlovsk Region, 623408, Russia Tel: +7 (3439) 39 54 17 Fax: +7 (3439) 39 52 49  
JOINT STOCK COMPANY

P.O. No.: VIM-041201      Quantity, pc: 6  
Article No.:      Net Weight, kg.: 639  
S.O. No.: N17063  
Item No.: 1.2  
Package No.: 725303

Description of Goods: Plates

Grade of Product

Dimensions, inch (mm)

0.52X48.5X98.5" /  
12.700X1231.5X2451.1

Requirements on the Products:

6061 T651

Product conforme to all requirements of:  
ASTM B209-14; SAE AMS-OC-A-250/11A (2008); SAE AMS 4027 Rev. N (2014). This product conforms to European Union RoHS Directive  
2011/65/EU

## Mechanical Properties

The Condition of Tested Standards	Lot No.	Heat lot No.	MT Charge No.	Sampling direction	Tensile Strength, Rm / Cd		Yield Strength, Rp0.2% / Cleaving test		Elongation, %		Hardness, HBW
					min	max	min	max	min	max	
Required				LT	42.0	-	35.0	-	8	-	-
	647106	13-2217		LT	46.6	47.3	42.7	43.8	13.1	16.1	-

## Chemical Composition, %

Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Zinc Zn	Titanium Ti	Others	Aluminum Al	Other Elements
Required	0.40 - 0.8	0.7	0.16 - 0.40	0.15	0.8 - 1.2	0.04 - 0.36	0.25	0.15	-	-	-
Contains	0.02 - 0.04	0.33 - 0.34	0.18	0.08	1.0	0.06	0.12	0.08 - 0.09	-	-	-
Desired	-	-	-	-	-	-	-	-	Each	Total	Aluminum Al
Planned	-	-	-	-	-	-	-	-	0.05	0.18	remainder
Contains	-	-	-	-	-	-	-	-	0.05	0.15	remainder

## Other Tests

Method	Macro-structure	Micro-structure	UT	Kic	Electro-conductivity, ACS%	SCP	Content H2 of contents	Raw material used for manufacturing supplied products was tested for compliance with International Radiation Safety Regulations during incoming inspection. Russia is country of melt and manufacture. No weld repair.		
Result	-	-	-	-	-	-	0.25			

On behalf:

Date:

QCB Inspector

Inspection Department Engineer

KUMZ J.S.C.

17.06.2017

Gureva V.N.

Alechina N.V.



Form № QAD/3-003, Revision 03

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H4140VRD.500X.500  
 DATE: 17/11/02

PO / BATCH NO.: 038050

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12  
 QUANTITY INSPECTED: 12  
 QUANTITY REJECTED: \_\_\_\_\_

THICKNESS ORDERED: .500  
 THICKNESS RECEIVED: .500  
 SHEET SIZE ORDERED: \_\_\_\_\_  
 SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	HT # 10466150
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	H4140VRD.500X.500
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 1B INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>JW</u>	SIGNED OFF BY: _____
DATE: <u>17/11/02</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN IT	DRAWN BY IT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED H	APPROVED H	DRAWING NO. M4140N-B	REV. A SHEET 1 OF 1
DATE 05.01.19		TITLE 4140 BAR	SCALE NTS
A	05.01.19	NEW ISSUE	

~~RELEASER~~  
H 05.01.19

PURCHASE MATERIAL : AISI 4140N STEEL BAR

PER MIL-S-5626, AMS 6382, ANS 6347, AMS 6529

PART NUMBER : M4140N-E | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)  
THICK | WIDTH | WWW.WWW = WIDTH (IN INCHES)

EG. 0.5" x 4.0" BAR = M4140N-B0.500 x 04.000

.500 x .500

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707ST6 R 1.750  
 DATE: 17/11/02

PO / BATCH NO.: 038050/

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: \_\_\_\_\_

THICKNESS ORDERED: 1.750  
 THICKNESS RECEIVED: 1.750  
 SHEET SIZE ORDERED: \_\_\_\_\_  
 SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<u>AMS AD-A-22519</u>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<u>HEAT # 10059056</u>
CORRECT MATERIAL IDENTIFICATION	Y	N	<u>707ST6</u>
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Onk</u>	SIGNED OFF BY: _____
DATE: <u>17/11/02</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN <i>DC</i>	DRAWN BY <i>SC</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED <i>B</i>	APPROVED <i>A</i>	DRAWING NO. M7075T6R	REV. A	SHEET 1 OF 1
DATE 07.07.12		TITLE 7075-T6 ROUND BAR	SCALE NTS	
A	07.07.12	NEW ISSUE		

*RELEASED  
(7.7.12) PD*

PURCHASE MATERIAL: 7075-T6 (OR T651/T6510/T6511/T652/T62) ROUND BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4124/4186/4187) OR  
PER AMS-QQ-A-200/11

PART NUMBER: M7075T6RD.DDD WHERE D.DDD = DIAMETER (IN INCHES)

EG. 5/8 ROUND BAR = M7075T6R0.625

*1.750*

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 460CL1T6 BO 500X7.00 PO / BATCH NO.: 38050/  
 DATE: 17/11/02

MATERIAL CERT REC'D:	<u>yes</u>	THICKNESS ORDERED:	<u>.500</u>
QUANTITY RECEIVED:	<u>8</u>	THICKNESS RECEIVED:	<u>.500</u>
QUANTITY INSPECTED:	<u></u>	SHEET SIZE ORDERED:	<u></u>
QUANTITY REJECTED:	<u></u>	SHEET SIZE RECEIVED:	<u></u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>HEAT # 13-2217</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>M460CL1T6</i>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T651/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-2258 OR AMS-QQA-2268 (OR AMS 4117A/12B/4115A/16)  
OR QQA-2008 OR AMS-QQA-2008 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221



PART NUMBER:

M6061T6B | T.TT | X | WW.WWW

THICK |

WIDTH |

WHERE "T.TT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES

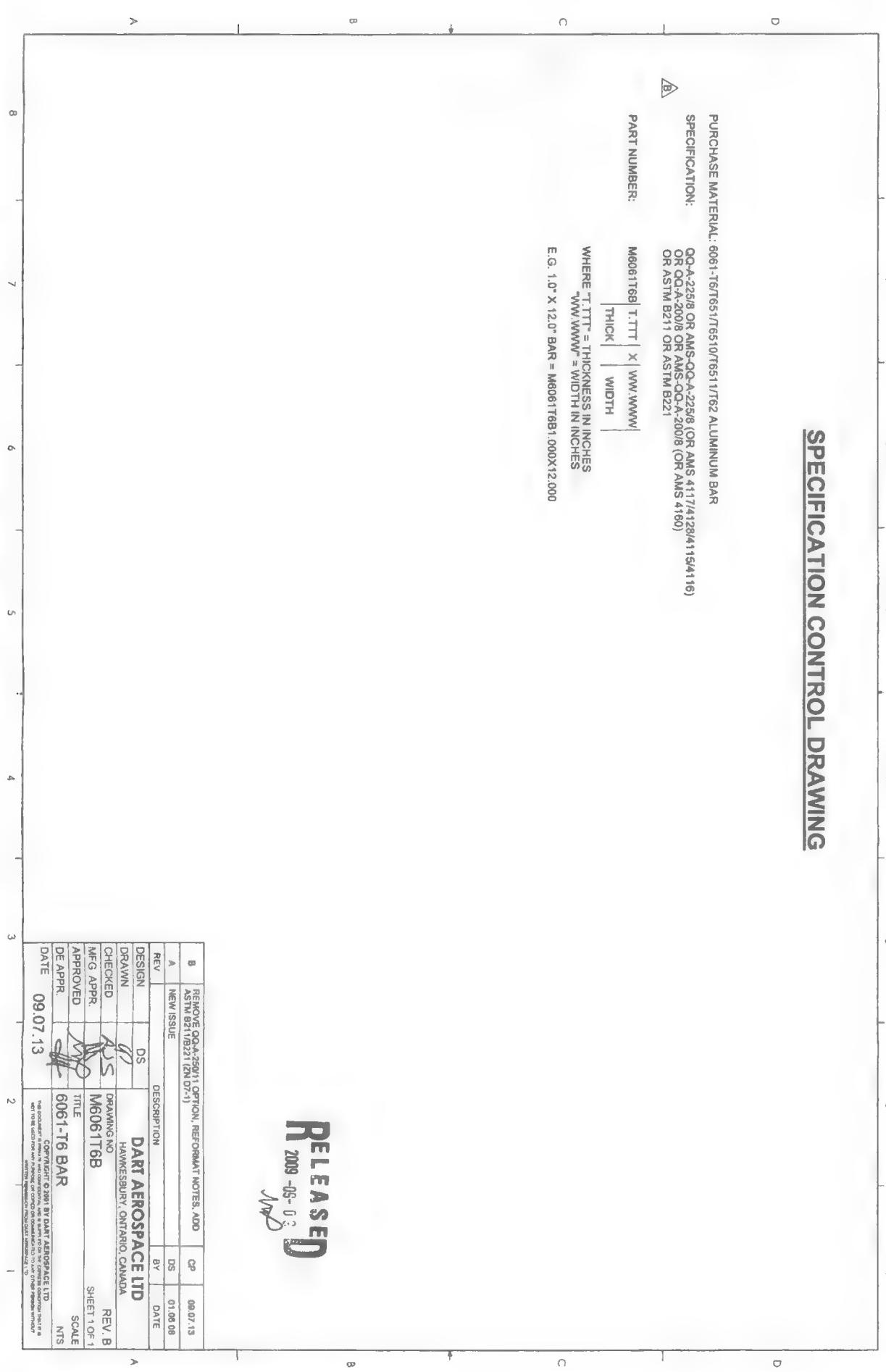
E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-22611 OPTION, REFORMAT NOTES, ADD ASTM B211/T621 (2ND DRAFT)		CD	09.07.13
A	NEW ISSUE		DS	01.06.08
REV	DS	DESCRIPTION	BY	DATE
DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA		
DRAWN	DS	DRAWING NO.		
CHECKED	DS	REV. B		
MFG APPR.	DS	SHEET 1 OF 1		
APPROVED	DS	TITLE		
DE APPR.	DS	6061-T6 BAR		
DATE	09.07.13	SCALE NTS		

**RELEASED**  
2009-05-03  
*[Signature]*

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT 4140QT R1  
DATE: 11/15

PO / BATCH NO.: P038025 / 5001126

MATERIAL CERT REC'D: yes  
QUANTITY RECEIVED: 10  
QUANTITY INSPECTED: 10  
QUANTITY REJECTED: 0

THICKNESS ORDERED: 1"  
THICKNESS RECEIVED: 1"  
SHEET SIZE ORDERED: N/A  
SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y N	
CORRECT FINISH	Y N	
CORROSION	Y N	
CORRECT GRAIN DIRECTION	Y N	
CORRECT MATERIAL PER M-DRAWING	Y N	
CORRECT THICKNESS	Y N	
PHOTO REQUIRED	Y N	
CORRECT REF # TO LINK CERT	Y N	UF14203251
CORRECT MATERIAL IDENTIFICATION	Y N	MT 4140QT R1
CORRECT M# ON THE MATERIAL	Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: 9 DATE: 11/15	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR  
SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT  
PART NUMBER: MT-4140QT-R[D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
E.G. 5/8" ROUND BAR = MT-4140QT-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.12	VM	WM

A B C D

**DART**  
Aerospace Manufacturing, Ontario Canada  
**MT-4140 Q&T ROUND BAR**

DRW NO: **MT-4140QT-R** BY **A**

DESIGN BY: **VM 8/9/2017** DRAWN BY: **VM/CSL 4/2017** CHECKED BY: **VM/CSL 4/2017** APPROVED BY: **PD/OSL 4/2017** DATE: **9/14/2017**

FRACTIONS & 1/16 INCHES: ANGLES & 1/16 INCHES:  
XX - .065 X - .01  
X - .125 X - .025  
1. DIMENSIONS ARE IN INCHES.  
2. INTERPRETATION AND TOL. PER  
3. DRAWINGS ARE FOR INFORMATION ONLY.  
4. CHANGES IN DESIGN WILL BE MADE  
AFTER RATIFIED.

SCALE: **N/T** WEIGHT: **0.0 LBS** SHEET **1 OF 1**

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Technical Drawing and is not to be used for construction. It is a drawing for information purposes only.  
Printed on **2017-09-14** at **10:45:00** by **VM**.

E CAD 7-655

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT AS13-TD-S00W.06  
 DATE: 17.11.15

PO / BATCH NO.: 038050/5007127

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 20  
 QUANTITY INSPECTED: 20  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .065  
 THICKNESS RECEIVED: .065  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	F646491
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	MT AS13-TD-S00W.06
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	5007127
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>g</u> <u>9.9%</u>	SIGNED OFF BY: _____
DATE: <u>17.11.15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17/09/06	VM	WM

**PURCHASE MATERIAL: ASTM A513 SEAMLESS ALLOY STEEL ROUND TUBING (DOM)**

SPECIFICATION:

ASTM A513

PART NUMBER:

WHERE D.DD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TT IS WALL THICKNESS IN INCHES

**EG: 3/4" ROUND TUBING WITH .120" WALL THICKNESS**

TOLERANCES PER MANUFACTURER SPECIFICATIONS

FOLLOWING PERMANENT ROTATION SPECIFICATIONS

FOLLOWING PERMANENT ROTATION SPECIFICATIONS

5 - 4 - 3

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT.414001-R0625

DATE: 17.11.15

PO / BATCH NO.: 08800 / 5007115

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 10  
 QUANTITY INSPECTED: 10  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625"  
 THICKNESS RECEIVED: .625"  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>DL13101201</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>MT.414001-R0625</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>5007115</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9.00</u>	SIGNED OFF BY: _____
DATE: <u>17.11.15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8
REV.	DESCRIPTION						
A	NEW ISSUE						

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR  
SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT  
PART NUMBER: MT-4140QT-R (D,DDD)  
WHERE "D,DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = MT-4140QT-R0.625

D C B A

**DART**  
AEROSPACE Mississauga, Ontario, Canada

**TITLE** AISI 4140 QT ROUND BAR

**DRAW NO.** MT-4140QT-R **REV** A

**DESIGN BY:** VIM 09/12/2017 **FRACTIONAL & MM** ANGLES 2.5°  
**DRAWN BY:** VAD 09/14/2017 **ANGLES 2.5°**  
**CHECKED:** VAD 09/14/2017 **1. UNLESS OTHERWISE SPECIFIED**  
**REC'D. APPROV:** DPM 09/14/2017 **2. TOLERANCES AND TOL. PER**  
**QA APPROV:** PD 09/14/2017 **3. DIMENSIONAL LIMITS APPLY**  
**APPROVED:** VIM 09/14/2017 **SCALE: NTS WEIGHT 0.1 LBS** **DATE: 9/14/2017** **SHHEET 1 OF 1**

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ECA 7-655

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4145-R1500  
 DATE: 17.11.15

PO / BATCH NO.: 033050/5007114

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500  
 THICKNESS RECEIVED: 1.500  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>D145KD</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	9	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	9-80	SIGNED OFF BY: _____
DATE:	17.11.15	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.20	SAC	WM

DAS  
9  
9-809

PURCHASE MATERIAL: AISI 41L40 STEEL ROUND BAR  
 SPECIFICATION: AISI 41L40  
 PART NUMBER: MT-41L40-R[D,DDD]  
 WHERE "D,DDD" = DIAMETER IN INCHES  
 EG, 5/8" ROUND BAR = MT-41L40-R0.625

<b>DART</b>	
AEROSPACE	
Newmarket, Ontario, Canada	
<b>MT-41L40 LEADED STEEL ROUND BAR</b>	
DESIGN NO:	MT-41L40-R
REV:	A
DESIGN BY:	SAC 2009/2017
DRAWN BY:	SAC 09/20/2017
CHECKED:	VM 09/2/2017
MFG APPROVED:	DP 09/2/2017
APPROVED:	VM 10/5/2017
DATE:	20/09/2017
SCALE:	NIS
WEIGHT:	N/A
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8              7              6              5              4              3              2              1

